

ABSTRACT

A PET-based polyester packaging film capable of weld-cut sealing and heat-shrinkage refers to a film obtained by biaxially orienting a material prepared through block copolymerization of a PET/PETG/polyester elastomer with an epoxy resin and a catalyst. This film eliminates the most serious weak points in physical properties of conventional PET films, and is useful for packaging of books, bottle sets, food containers, etc., for general packaging, packaging of industrial materials, and the like, and is further useful in the field of packing and packaging of daily commodities, civil engineering and construction members, electric and electronic members, and automobile vehicle members, etc. Moreover, this film can be produced through effective use of the huge amount of recycled PET bottles and inexpensive PET for fiber as a prepolymer, and thus is also highly beneficial socially. Still further, even if incinerated after use, this film produces a combustion heat value lower than that of a polyethylene or polypropylene. Thus, this film barely damages incinerators or the like, and emits no toxic gases.